

Product datasheet for **RG205498**

RASGEF1A (NM_145313) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	RASGEF1A
Synonyms:	CG4853
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence: >RG205498 representing NM_145313
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCGCAGACGTCGGTTGTCTTCTCCAGCATCCTTGGGCCAGCTGTAGCGGACAGGTGCAGCCTGGCA
 TGGGGGAGCGTGGAGGCGGGCCGGTGGCGGCTCCGGGGACCTCATCTTCCAAGATGGACACCTCATCTC
 TGGGTCCCTGGAGGCCCTGATGGAGCACCTTGTCCACGGTGGACTATTACCCCGATAGGACGTACATC
 TTCACCTTTCTCCTGAGCTCCCGGGTCTTATGCCCTCATGACCTGCTGGCCCGCGTGGGCGAGATCT
 GCGTGGAGCAGAAGCAGCAGCTGGAAGCCGGGCTGAAAGGCCAAGCTGAAGTCTTTCTCAGCCAAGAT
 CGTGCAGCTCTGAAGGAGTGGACCGAGGCCTTCCCTATGACTTCCAGGATGAGAAGGCCATGGCCGAG
 CTGAAAGCCATCACACACCGTGTACCCAGTGTGATGAGGAGAATGGCACAGTGAAGAAGGCCATTGCC
 AGATGACACAGAGCCTGTTGCTGTCTTGGCTGCCCGAGCCAGCTCCAGGAAGTGCAGAGAAGCTCCG
 GCCACCGGCTGTAGACAAGGGGCCATCTCAAGACCAAGCCAGCCGCCAGAGGACATCTGGGC
 GTGTGCTGCGACCCCTGGTGTGGCCAGCAGCTGACTCACATTGAGCTGGACAGGGTCAGCAGCATTT
 ACCCTGAGGACTTGATGAGATCGTCAGCCACATGGACTCATTGGACAACCACAGGTGCCGAGGGGACCT
 GACCAAGACCTACAGCTGGAGGCCTATGACAAGTGGTTCACTGCCTGAGCATGTGGTGGCCACTGAG
 GTGTGCCGGTGGTGAAGAAGAAACACCGACCCGCATGTTGGAGTTCTTATTGATGTGGCCGGGAGT
 GCTTCAACATCGGGAACCTCAACTCCATGATGGCCATCATCTCTGGCATGAACCTCAGTCCGTGTGGCAAG
 GCTGAAGAAAACCTTGGTCCAAGGTCAAGACAGCCAAGTTTATGTCTTGGAGCATCATATGACCCGTCC
 AGCAACTTCTGCAACTACCGTACAGCCCTGCAGGGGGCCACGCAGAGGTCCAGATGGCCAACAGCAGCC
 GTGAAAAGATCGTCATCCCTGTGTTCAACCTCTTCGTTAAGGACATCTACTTCTGCACAAAATCCATAC
 CAACCACCTGCCCAACGGGCACATTAACCTTAAGAAATTCTGGGAGATCTCCAGACAGATCCATGAGTTC
 ATGACATGGACACAGGTAGAGTGTCTTTGAGAAGGACAAGAAGATTCAGAGTTACCTGCTCACGGCGC
 CCATCTACAGCGAGGAAGCTCTCTTCGTCGCCTCCTTTGAAAGTGAGGGTCCCAGAACACGTGGAAAA
 AGACAGCTGGAAGACCTCAGGACACCTTCTGAACAGAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205498 representing NM_145313
 Red=Cloning site Green=Tags(s)

MPQTSVVFSSILGPSCSGVQPGMGERGGGAGGSGDLIFQDGHILISGSLEALMEHLVPTVDYYPDRTYI
 FTFLLSSRVFMPPHDLLARVGQICVEQKQLEAGPEKAKLSFSKIVQLLKEWTEAFPYDFQDEKAMAE
 LKAITHRVTCDEENGTVKKAIAQMTQSLLLSLAARSQLELREKLRPAPVDKGPILKTKPPAAQKDILG
 VCCDPLVLAQQLTHIELDRVSSIYPEDLMQIVSHMSLDNHRCRGDLTKTYSLEAYDNWFNCLSMLVATE
 VCRVVKKKHRTMLEFFIDVARECFNIGNFNSMMAIISGMNLSPPVARLKKTWKVKTAKFVLEHMDPS
 SNFCNYRTALQGATQRSQMANSSREKIVIPVFNLFVKDIYFLHKIHTNHLNPGHINFKKFWEISRQIHEF
 MTWTQVECPFEKDKKIQSYLLTAPIYSEEALFVASFESEGPENHVEKDSWKTLRTLLNRA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145313

ORF Size: 1443 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

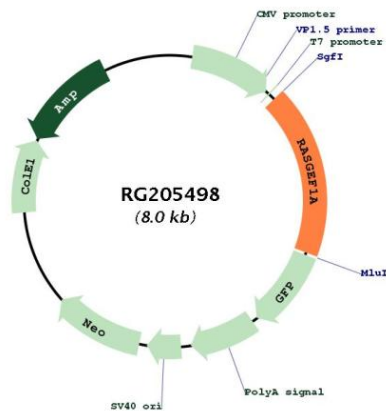
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_145313.2](#), [NP_660356.2](#)

RefSeq Size:	3235 bp
RefSeq ORF:	1446 bp
Locus ID:	221002
UniProt ID:	Q8N9B8
Cytogenetics:	10q11.21
Gene Summary:	Guanine nucleotide exchange factor (GEF) with specificity for RAP2A, KRAS, HRAS, and NRAS (in vitro). Plays a role in cell migration.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG205498